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Masaki). 近藤 由美 (KONDO, Yumi). 杉本 和彦 (SUGIMOTO, Kazuhiko). 濑戸口 広志 (SETOGUCHI, Hiroshi). 日比野 純一 (HIBINO, Junichi). 田中 好紀 (TANAKA, Yoshiki). 細川 鉄平 (HOSOKAWA, Teppei).

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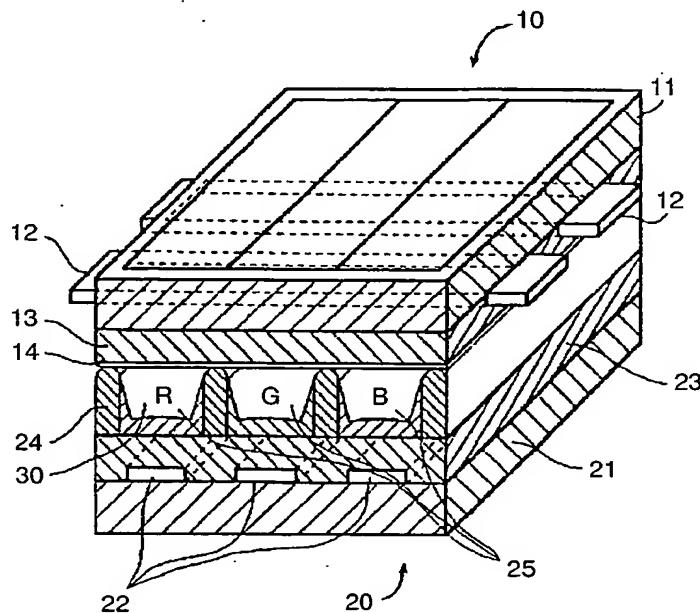
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[続葉有]

(54)Title: PLASMA DISPLAY PANEL AND METHOD FOR PRODUCING SAME

(54)発明の名称: プラズマディスプレイパネルおよびその製造方法



(57)Abstract: A plasma display panel is disclosed wherein the sustaining voltage is stabilized and decrease in phosphor luminance is suppressed. In the plasma display panel, a magnesium oxide (MgO) protective film (14), to which an oxide having an electronegativity of not less than 1.4 is added, is formed on a dielectric glass layer (13) as the magnesium oxide (MgO) protective film (14). Consequently, adsorption of impurity gases onto the protective film (14) can be suppressed, and therefore the sustaining voltage is stabilized and decrease in phosphor luminance is suppressed.

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添付公開書類:  
— 国際調査報告書

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

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(57) 要約: 放電維持電圧の安定化と蛍光体の輝度劣化の低減を図ったプラズマディスプレイパネルである。プラズマディスプレイパネルにおいて、誘電体ガラス層(13)上に形成される酸化マグネシウム(MgO)の保護膜(14)として、電気陰性度が1.4以上の酸化物を添加した酸化マグネシウム(MgO)の保護膜(14)を形成することによって、保護膜(14)の不純ガス吸着を抑制し、放電維持電圧の安定化と、輝度劣化の低減を図ることができる。

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/005686

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl<sup>7</sup> H01J11/02, H01J9/02

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> H01J11/00-11/04, H01J17/00-17/49, H01J9/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004  
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 11-003665 A (Matsushita Electric Industrial Co., Ltd.), 06 January, 1999 (06.01.99), Claims 2 to 3; Par. Nos. [0046] to [0050] (Family: none)	1-5
X	JP 56-061739 A (Fujitsu Ltd.), 27 May, 1981 (27.05.81), Full text; all drawings (Family: none)	1-4
X	JP 11-339665 A (Mitsubishi Electric Corp.), 10 December, 1999 (10.12.99), Claims 1 to 3; Par. Nos. [0045] to [0048] (Family: none)	1-4

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
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Date of the actual completion of the international search  
06 July, 2004 (06.07.04)

Date of mailing of the international search report  
20 July, 2004 (20.07.04)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Faxsimile No.

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## INTERNATIONAL SEARCH REPORT

International application No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2002-260535 A (Hitachi, Ltd.), 13 September, 2002 (13.09.02), Par. Nos. [0020] to [0023], [0032] & EP 1237175 A2 & KR 2002/070755 A & US 2002/121861 A1	1-4
P,X	JP 2004-047193 A (Hitachi, Ltd.), 12 February, 2004 (12.02.04), Full text; all drawings (Family: none)	1-4
E,X	JP 2004-131785 A (Mitsubishi Materials Corp.), 30 April, 2004 (30.04.04), Par. Nos. [0014] to [0022] (Family: none)	1-4